

ABSTRACT OF THE DISCLOSURE

- A baseband direct sequence spread spectrum CDMA transceiver. The data signal is modulated with a Hadamard function having pseudorandomly
- 5 scrambled rows. This data signal is then broadcast baseband, absent a carrier, by a relatively short, mismatched antenna. The baseband signal is spread out across the DC to 30 MHz spectrum. A low noise, high gainbandwidth product amplifier boosts the baseband RF signal. A correlator/servo system is used to actively cancel the transmit signal from the received signal.
- 10 Consequently, the same antenna can be used to receive incoming baseband RF signals as well as transmit baseband RF signals, thereby providing full duplex operation.

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